

Claims

1. A self-boosting electromechanical friction brake, having a friction brake lining which is movable in a direction of rotation and into contact with a brake body, having an electromechanical actuation device with which the friction brake lining can be pressed for braking against the brake body, and having a ramp mechanism which braces the friction brake lining at a ramp angle to the brake body, the ramp mechanism having a roller bearing that has roller bodies, with which roller bearing the friction brake lining is movably supported at a wedge angle to the brake body, characterized in that the roller bodies (24) are supported fixedly and rotatably on a component of the friction brake (10).

2. The friction brake according to claim 1, characterized in that the roller bodies (24) are supported on a stationary abutment (26) of the ramp mechanism, and the abutment (26) braces the friction brake lining (14) at the ramp angle (α) to the brake body (16).

3. The friction brake according to claim 1, characterized in that the roller bodies (24) are supported in stationary and rotatable fashion on the friction brake lining (14).

4. The friction brake according to claim 1, characterized in that an imaginary straight line (34) through an axis of rotation of a roller body (24), which imaginary straight line is perpendicular to a ramp (28), intersects a surface (36) of the friction brake lining

(14), oriented toward the brake body (16), inside the surface (36) of the friction brake lining (14).

5. The friction brake according to claim 1, characterized in that the axes of rotation of the roller bodies (24) have a transverse inclination, so that the roller bodies (24) brace the friction brake lining (14) centrally to an imaginary circular circumferential line with its center on the axis of rotation of the brake body (16) that divides a surface, oriented toward the brake body (16), of the friction brake lining (14) into two faces of at least approximately equal size.

6. The friction brake according to claim 1, characterized in that the roller bodies (24) are roller-borne.

7. The friction brake according to claim 6, characterized in that the roller bearings (54, 60) of the roller bodies (24) rest in bearing pockets (52, 62) that are complementary to the roller bearings (54, 60).

8. The friction brake according to claim 1, characterized in that the roller bodies (24) are offset in the displacement direction of the friction brake lining (14) such that they brace the friction brake lining (14) centrally to an imaginary center line, which extends transversely to the displacement direction of the friction brake lining (14) and divides the surface (36), oriented toward the brake body (16), of the friction brake lining (14) into two faces of at least approximately equal size.

9. The friction brake according to claim 1, characterized in that the friction brake (10) is a partly lined disk brake.